

Serial No. 09/406,729

Docket No. CIT/K-0090

Amendment dated May 15, 2007

Reply to Office Action of December 15, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method comprising:

deciding a bearer service profile type according to a bearer service combination type of bearer service to provide said bearer service;

selecting a transport format within a transport format combination set according to the decided bearer service profile type; and

transmitting a transport format indicator to indicate the selected transport format;

and

transmitting a transport format combination indicator including a plurality of transport format indicators to a dedicated physical control channel.
2. (Previously Presented) The method as set forth in claim 1, wherein said bearer service profile type includes a service type and radio environment information.

3. (Original) The method as set forth in claim 2, wherein said service type includes said bearer service combination type and a bearer service class type.

4. (Original) The method as set forth in claim 3, wherein said bearer service combination type includes a bearer service category defined by a combination of speech, circuit data and packet data services, said bearer service category including any one of only said speech service, only said circuit data service, only said packet data service, a combination of simultaneous speech and packet data services, a combination of simultaneous speech and circuit data services, a combination of simultaneous packet data and circuit data services and a combination of simultaneous speech, packet data and circuit data services.

5. (Original) The method as set forth in claim 3, wherein said bearer service class type includes any one of first to fourth classes, said first class having connection oriented and delay constrained characteristics for low delay data, said second class having variable bit rate, connection oriented and delay constrained characteristics for low delay data at a variable bit rate, said third class having connection oriented and delay constrained characteristics for long constrained delay data, said forth class having connectless and delay unconstrained characteristics for unconstrained delay data.

6. (Previously Presented) The method as set forth in claim 2, wherein:

said radio environment information includes one of an indoor environment model, an outdoor to indoor and pedestrian environment model and a vehicular environment model; and

said radio environment information is based on periodic, on-demand and threshold information.

7. (Previously Presented) The method as set forth in claim 1, wherein setting said transport format includes attributes of a dynamic part and semi-static part of transport formats indicated by said transport format indicator.

8. (Previously Presented) The method as set forth in claim 7, wherein said attributes of said dynamic part include at least one of a transport block size and a transport block set size.

9. (Previously Presented) The method as set forth in claim 7, wherein said attributes of said semi-static part include at least one of a transport time interval, a type of channel coding, outer coding, outer interleaving, inner coding, inner interleaving and rate matching.

10. (Currently Amended) A method comprising:

~~deciding a bearer service combination type of a bearer service for a mobile station and a base station;~~

~~measuring a radio environment between said mobile station and said base station;~~

~~deciding a bearer service profile type according to said bearer service combination type and said radio environment;~~

~~assigning, at a radio resource control (RRC) layer, a transport format combination set to a medium access control (MAC) layer according to said bearer service profile type;~~

~~selecting at the MAC layer a transport format within said assigned transport format combination set and transmitting, at the MAC layer to a physical (PHY) layer, a transport format indicator to indicate said selected transport format; and~~

~~configuring said transport format including attributes of a dynamic part and a semi-static part according to said transport format indicator; transmitting at [[the]] a physical (PHY) layer, a transport format combination indicator [[to]] on a dedicated physical control channel; and~~

~~appending, at the PHY layer, the transport format combination indicator to a dedicated physical control channel (DPCCH).~~

11. (Currently Amended) The method as set forth in claim 10, wherein:

~~measuring includes determining whether said radio environment includes one of an indoor environment model, an outdoor to indoor and pedestrian environment model and a vehicular environment model; and~~

~~said radio environment information is based on periodic, on-demand and threshold information~~the transport format combination indicator is related to attributes of a dynamic and semi-static part of the selected transport format.

12. (Previously Presented) The method as set forth in claim 10, wherein said attributes of said dynamic part include a transport block size and a transport block set size.

13. (Currently Amended) The method as set forth in claim 10, wherein said attributes of said semi-static part include at least one of a transport time interval, a type of channel coding, outer coding, ~~outer interleaving, inner coding, inner interleaving~~ and rate matching.

14-33. (Canceled).

34-47. (Canceled).

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48. (Canceled).

49-60. (Canceled).

61-64. (Canceled).